Lista 12 repetytorium

czwartek, 18 maja 2023 08:34

Do rodonia 1 z listy 11:

Cielescuostio.

Lemel: 11.12 movi o DOWOLNYM ilomprie

sholomyn to zueny (u, v) = [u]B. [v]B

Your runglety 11 wesz" ilongu shelovy

[] = [[]] | [] [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] | [] "marre" Cznylette

M- mocien lux dretour

M dodatuis dueslous, goly Fr spetriu aligomoty

ilongu skolonege i: - FM: V×V -> Fa ciolo $-F_{M}(u, v) = u^{T} M v$

Tale rop vowels unstoray, ely:

- 40 40 VT MV >0

Knyterium Sylvestera:

- M jest synetrycrue

- Le my ruecruilei se docloture:



(Zadoua 1,2)

Rozlitad morieny dodatnio duestonej

ue A'A

B- barre MB-moier ilougen sholomego a Garie 6

(MB);; = < b;, 6;>

to to some is uncien Grama

wtedy (u, v) = [a]BM [v]B

demet: jele znam i longe sholorny w barie B to moreny prelistatiic me ilonge sholory w beerie A toli:

= (MDAUB) T MA (BBAUB) =

 $u_A M^A v_A = \langle u, v \rangle$

B- bera ortonormoline MB = Id

Korlutod monerny dodestnie obrestonej une A'A

Prylitool:

to moier mon o ilonguie skolornym u jolivejt borie.

E- born stouds relows

E= {(1,0), (0,1)}

morien mystee o tym, is to movies rodeje ilongu sholovny u borie standortlavej E.

Wteely:

 $\langle (x,y), (x',y') \rangle = [x y] [2 1] [x']$

 $\|(1,0)\|^2 = [10] [21] [1] = [21] [1] = 2$

 $\|(0,1)\|^2 = [0,1] \begin{bmatrix} 2 & 1 \end{bmatrix} \begin{bmatrix} 1 \\ 1 & 2 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \end{bmatrix} = 1$

Bedieur chieli wige wrom:

ME = MBA MBA

AT

A

dieny, ilby byto identyrnosing,

Matego musing wise here,

ortonormaling wrote, dem "nosrego" i Longun sholovnego (olefiniona nego puer M)

To boro:

Brenung borg stoudovdows i orto gouolizujeny.

U1 = (1,0)

Uz: (0,1)

 $u_1 = \frac{v_1}{\|v_1\|} = \frac{(1,0)}{\sqrt{2}} \left(\frac{\sqrt{2}}{2}, 0 \right)$

 $\sigma_{2} = (0, 1) - \langle u_{1}, \sigma_{2} \rangle u_{1} = (0, 1) - (\frac{1}{2}, 0) = (-\frac{1}{2}, 1)$ $U_z = \frac{U_z}{\|U_z'\|} = \frac{2}{3} |U_z'| = \left(-\frac{1}{3}, \frac{2}{3}\right)$

 $\begin{bmatrix} \frac{1}{2} & 1 \end{bmatrix} \begin{bmatrix} 2 & 1 \\ 1 & 2 \end{bmatrix} \begin{bmatrix} \frac{1}{2} \\ 1 \end{bmatrix} = \begin{bmatrix} 0 & \frac{3}{2} \end{bmatrix} \begin{bmatrix} \frac{1}{2} \\ 1 \end{bmatrix} = \frac{3}{2}$

[01] [51] [5] = [15] [6] = 2

Tever many berg ortens runding A

Stool wien, ie MA = 1d, orghi

MB=MBATMAMBA (=> MBATMBA

Szulione A to MBA, lito're livry my tole: Ez bory B no berg 4

MBA TOJB = [O]A

June vorviegrature:

2 rodonie 3.